

Title (en)

A method for producing aryl alkyl hydroperoxides

Title (de)

Verfahren zur Herstellung von Aryl-alkyl-Hydroperoxiden

Title (fr)

Procédé pour la préparation d'aryle-alkyle-hydropéroxydes

Publication

**EP 0729938 A3 19970820 (EN)**

Application

**EP 96102831 A 19960226**

Priority

- JP 4057895 A 19950228
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- JP 12512495 A 19950524

Abstract (en)

[origin: EP0729938A2] A method for producing aryl alkyl hydroperoxides which comprises selectively oxidizing an aryl alkyl hydrocarbon having the formula: <CHEM> wherein P and Q are hydrogen or an alkyl and may be the same or different from each other; x is an integer of 1-3; and Ar is an aromatic hydrocarbon group having a valence of x, with an oxygen-containing gas in the presence of a transition metal complex which contains, as a ligand, a cyclic polyfunctional amine compound having at least three nitrogen atoms in the ring forming molecular chain or an open chain polyfunctional amine compound having at least three nitrogen atoms in the main chain of the molecule.

IPC 1-7

**C07C 211/65; C07D 255/00; C07D 257/00; C07D 259/00; C07C 407/00**

IPC 8 full level

**C07F 13/00** (2006.01); **C07C 211/65** (2006.01); **C07C 215/14** (2006.01); **C07C 219/06** (2006.01); **C07C 229/16** (2006.01); **C07C 233/36** (2006.01); **C07C 251/24** (2006.01); **C07C 251/74** (2006.01); **C07C 251/76** (2006.01); **C07C 251/86** (2006.01); **C07C 255/24** (2006.01); **C07C 407/00** (2006.01); **C07C 409/08** (2006.01); **C07C 409/10** (2006.01); **C07C 409/12** (2006.01); **C07D 255/02** (2006.01); **C07D 257/02** (2006.01); **C07D 259/00** (2006.01); **C07F 1/08** (2006.01); **C07F 15/00** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

- [X] GB 1205835 A 19700916 - SUN OIL CO [US]
- [X] EP 0543619 A1 19930526 - EXXON RESEARCH ENGINEERING CO [US]
- [X] CHEMICAL ABSTRACTS, vol. 78, no. 21, 28 May 1973, Columbus, Ohio, US; abstract no. 135806, XP002032832 & DABROWSKI ET AL.: "Cumene oxidation", ZESZ. NAUK., vol. 4, no. 20, 1972, pages 87 - 100
- [X] CHEMICAL ABSTRACTS, vol. 79, no. 9, 3 September 1973, Columbus, Ohio, US; abstract no. 52880, XP002032833 & ANDRIANOVA, T. ET AL.: "Catalytic activity of some azaporphine compounds in cumene oxidation", IZV. AKAD. NAUK. SSSR., vol. 3, 1973, pages 531 - 536
- [X] DATABASE WPI Week 7534, Derwent World Patents Index; AN 75-56360, XP002032834 & JP S5037741 A 19750408 & JP S5037741 A 19750408
- [X] HARA ET AL.: "Oxidation of cumene", CHEM. LETT., vol. 2, 1973, pages 103 - 106, XP002032831

Cited by

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